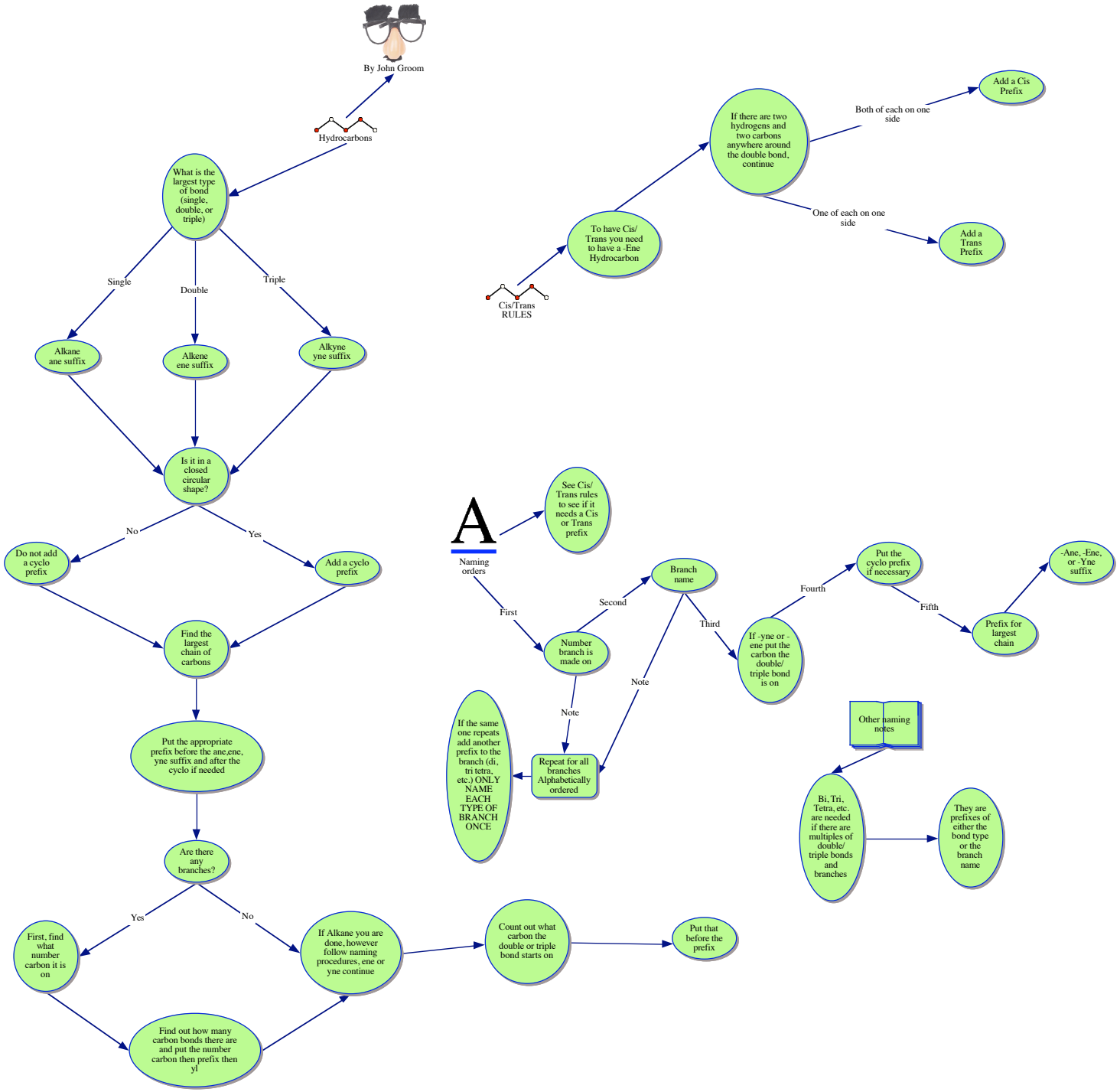
By John Groom
Hydrocarbons
What is the largest type of bond (single, double, or triple)
Single
Double
Triple
Alkane ane suffix
Alkene ene suffix
Alkyne yne suffix
Is it in a closed circular shape?
No
Yes
Do not add a cyclo prefix
Add a cyclo prefix
Find the largest chain of carbons
Put the appropriate prefix before the ane,ene, yne suffix and after the cyclo if needed
Are there any branches?
Yes
No
First, find what number carbon it is on
Find out how many carbon bonds there are and put the number carbon then prefix then yl
If Alkane you are done, however follow naming procedures, ene or yne continue
Count out what carbon the double or triple bond starts on
Put that before the prefix
Cis/Trans RULES
To have Cis/ Trans you need to have a -Ene Hydrocarbon
If there are two hydrogens and two carbons anywhere around the double bond, continue
Both of each on one side
Add a Cis Prefix
One of each on one side
Add a Trans Prefix
A
Naming orders
See Cis/ Trans rules to see if it needs a Cis or Trans prefix
First
Number branch is made on
Second
Branch name
Third
If -yne or -ene put the carbon the double/ triple bond is on
Fourth
Put the cyclo prefix if necessary
Fifth
Prefix for largest chain
-Ane, -Ene, or -Yne suffix
Note
Repeat for all branches Alphabetically ordered
Note
If the same one repeats add another prefix to the branch (di, tri tetra, etc.) ONLY NAME EACH TYPE OF BRANCH ONCE
Other naming notes
Bi, Tri, Tetra, etc. are needed if there are multiples of double/ triple bonds and branches
They are prefixes of either the bond type or the branch name